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NRO review(s)
completed.

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CORONA

COMIREX-D-16.1/7

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18 November 1969

MEMORANDUM FOR: Committee on Imagery Requirements
and Exploitation

SUBJECT: Monthly Report on Overhead Imagery
Reconnaissance

1. Attached is the report on overhead imagery reconnaissance
for the month of October 1969.

2. Following is the table of contents:

Satellite Reconnaissance Missions Launched
or Recovered in 1969 Pages 2 to 4

CORONA Page 5

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Cuba Page 7

China Page 8

South China and North Vietnam Pages 9 to 11

North Korea Page 12

USSR and European Satellites Pages 13 and 14

Status of FY 1970 Basic Support
Exploitation Program Page 15

NRO review(s)
completed.

Chairman

Committee on Imagery Requirements and Exploitation

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GROUP 1: EXCLUDED FROM
AUTOMATIC DOWNGRADING
AND DECLASSIFICATION

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Satellite Reconnaissance Missions
Launched or Recovered in 1969

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1000 Series are CORONA (KH-4A), 2 buckets, medium resolution.
1100 Series are CORONA (KH-4B), 2 buckets, medium resolution.

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Mission

Number

Date

Remarks

25X1D

1052 22 Sep - 7 Oct

Overall coverage was comparable to that of an average KH-4A mission -- interpretability ranged from poor to good. The mission was highlighted by the discovery of additional SS-11 ICBM silos at Pervomaysk and Derazhnya.

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Mission
Number

Date

Remarks

1107

24 Jul - 11 Aug

Longest KH-4 mission flown to date --
19 days. Mission was maintained on
orbit for one extra day to obtain
coverage of the Lop Nor Nuclear Test
Site. [REDACTED] due to the failure STAT
of one of the primary camera systems,
reduced mission effectiveness. Mission

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1051

2 May - 17 May

provided complete coverage of the
priority SS-9 and SS-11 associated
complexes. Overall image quality
was somewhat poorer than KH-4
coverage.

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Mission

Number

Date

Remarks

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1050

20 Mar - 22 Mar

Mission 1050 became unstable after

recovered after two days and the second
at the end of three days. Some usable
photography was obtained while the
vehicle was unstable.

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1106

6 Feb - 14 Feb

Although a special requirement for color
photography of selected targets in China

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mission was exceptionally good in other
respects. Unusually favorable weather
resulted in expenditure of all the film in
9 days -- photography 83% cloud-free.
Overall image interpretability was fair
to good.

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CORONA - Coverage Obtained

The following is the current status of the intelligence search requirements reported in terms of clear, panoramic photography of the USSR, East European Satellites, Communist China, and North Korea. The coverage is figured in millions of square nautical miles as shown below and on the map facing this page.

| | <u>Mission</u> | <u>Gross (%)</u> | <u>Net (%)</u> | <u>Accum (%)</u> | STAT |
|--|----------------|------------------|----------------|------------------|------|
| Built-up Areas (1 May - 31 Oct 69) | [] | [] | [] | [] | [] |
| Underdeveloped Areas (1 Nov 68 - 31 Oct 69) | | | | | |

*Unique coverage acquired by the first mission of the reporting period is [] underdeveloped areas. The unique coverages shown will drop off for the next reporting period.

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DEFINITION OF TERMS:

1. GROSS - Total amount of 90-100 percent cloud-free pan photography collected by each mission.
2. NET - That portion of gross coverage which represents non-redundant coverage, i.e., the newly observed area not covered by a previous mission during the reporting period.

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CUBA

Target categories are shown below. Only two OLD HEAD missions, both successful, were flown during the month on 4 and 8 October respectively. No significant new military developments were noted.

| | <u>Total Targets</u> |
|------------------------------|--------------------------|
| Missiles | |
| SAM-Associated Installations | 38 |
| Other Missile-Associated | 7 |
| Airfields | 14 |
| Port Facilities | 17 |
| Radar/Electronic Facilities | 6 |
| Military | 89 |
| Urban/Industrial | <u>4</u> |
| TOTAL | 175 |

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CHINA

1. A breakdown of China targets, by area and category, is shown below.

| Category | Formosa | | | | Total |
|----------------------|---------|-----------|---------|--------|-------|
| | South | Manchuria | Central | Strait | |
| Missiles | 7 | 13 | 62 | 4 | 86 |
| Aircraft | 38 | 52 | 122 | 8 | 220 |
| Nuclear | 2 | 1 | 29 | - | 32 |
| Naval | 46 | 9 | 36 | 30 | 121 |
| BW/CW | 14 | 9 | 7 | 1 | 31 |
| Electronic | 23 | 1 | 71 | 12 | 107 |
| Ground Force | 282 | 189 | 417 | 77 | 965 |
| L.O.C. and Complexes | 38 | 33 | 84 | 7 | 162 |
| U/I Facility | 2 | 1 | 41 | - | 44 |
| TOTAL | 452 | 308 | 869 | 139 | 1,768 |

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4. 1052-2 coverage of the Chinese nuclear test areas confirmed the Singer area, 70 nm northwest of Lop Nor, as the site of the Chic-9 underground test on 22 September 1969 and GZ-2 at Lop Nor as the site of the 29 September 1969 airdrop.

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SOUTH CHINA AND NORTH VIETNAM

1. The breakdown of all COMIREX targets in South China and North Vietnam is shown below. Those in parentheses are those requiring baseline/surveillance quality, high-resolution coverage.

| | <u>South China</u> | <u>North Vietnam</u> | <u>Total</u> |
|------------------------------|--------------------|----------------------|--------------|
| Missile Search | 1 | - | 1 |
| Deployed Missile Facilities | 6 | 208 | 214 |
| Airfields | 38 (21) | 16 (12) | 54 (33) |
| BW/CW | 14 (5) | - | 14 (5) |
| Nuclear Facilities | 2 | - | 2 |
| Naval Bases and Ports | 46 (6) | 17 (10) | 63 (16) |
| Ground Force Installations | 282 (66) | 99 (29) | 381 (95) |
| L. O. C. and Urban Complexes | 38 (4) | 144 (15) | 182 (19) |
| Other | 25 | - | 25 |
| TOTAL | 452 (102) | 484 (66) | 936 (168) |

2. During October reports were received showing Baseline (BL) and Surveillance (S) coverage as follows:

| | <u>South China</u> | <u>North Vietnam</u> |
|---------------------------|--------------------|----------------------|
| GIANT SCALE (5 missions) | - | 40 S |
| BUMPY ACTION (6 missions) | 3 S | 5 S |
| | | |
| TOTAL | 11 S | 49 S |

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SOUTH CHINA AND NORTH VIETNAM cont.

3. Drone overflights of South China were renewed in October with the launch of four missions on 17, 22, 25, and 28 October. The 17 October mission photographed several military storage and barracks areas in China near the Laos and Burma borders. No important changes were noted from previous coverage of these installations. The 22 October mission was recalled shortly after penetrating South China [REDACTED]

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[REDACTED] The 25 October mission failed to yield any usable photography [REDACTED] and the 28 October mission was lost, probably to fighter action.

4. The coverage of military installations and key lines of communication in South China and North Vietnam for which a baseline [REDACTED] is required stands as follows as of 31 October 1969:

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| | | |
|---|-----|-----|
| Targets to be covered | | 168 |
| Baseline acquired of South China targets | 102 | |
| Baseline acquired of North Vietnam targets | 65 | |
| Total targets covered with baseline quality | | 167 |
| Targets remaining to be covered | | 1 |

5. The second requirement is for certain areas to be searched, at a specified frequency, to detect the introduction of offensive missiles and other new weapons systems to North Vietnam. Recent coverage, expressed in square nautical miles, was achieved against the area requiring weekly coverage and the area requiring coverage every three weeks, as follows:

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[REDACTED]

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SOUTH CHINA AND NORTH VIETNAM cont.

a. Area requiring weekly coverage

| <u>Date</u> | <u>Sq. NM Photographed</u> | <u>% of Requirement</u> |
|-----------------|----------------------------|-------------------------|
| 16 Sep - 22 Sep | | |
| 23 Sep - 29 Sep | | |
| 30 Sep - 6 Oct | | |
| 7 Oct - 13 Oct | | |

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b. Area requiring coverage every three weeks

| <u>Date</u> | <u>Sq. NM Photographed</u> | <u>% of Requirement</u> |
|----------------|----------------------------|-------------------------|
| 16 Sep - 6 Oct | | |

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NORTH KOREA

1. The 614 targets in North Korea are distributed by category as shown below:

| | |
|--------------|------------|
| Missiles | 41 |
| Airfields | 21 |
| Nuclear | 1 |
| Naval | 36 |
| BW/CW | 1 |
| Ground Force | 345 |
| Other | <u>169</u> |
| TOTAL | 614 |

2. GIANT SCALE Mission 198, 17 October, revealed FROG (Free Rockets Over Ground) equipment in North Korea for the first time. This equipment was located in the Pyongyang area.

3. No significant new intelligence on North Korea was obtained by CORONA Mission 1052, 22 Sep - 7 Oct. Readout for [REDACTED] is not yet completed.

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USSR AND EUROPEAN SATELLITES

1. As shown below 5,647 of 9,194 COMIREX targets fall within the USSR and European Satellites. Any significant number of targets outside of the USSR is noted in parentheses.

| <u>Missiles</u> | <u>Number of Targets</u> |
|------------------------|---|
| ICBM | 1,295 |
| IR/MRBM | 338 |
| R&D | 137 |
| Production | 58 |
| Submarines | 75 |
| Anti-ballistic Missile | 7 |
| Other Missile | <u>182</u> (2 E. Germany; 1 Poland; 2 Bulgaria) |
| Total Missiles | 2,092 |
| <u>Airfields</u> | |
| Long Range Bombers | 62 |
| Other | <u>631</u> (46 Poland; 42 E. Germany; 37 Czechoslovakia; 17 Bulgaria; 14 Hungary; and 15 Rumania) |
| Total Airfields | 693 |
| <u>Other</u> | |
| Nuclear | 155 (6 E. Germany; 2 each, Hungary and Rumania; 1 each, Poland, Czechoslovakia, and Bulgaria) |
| Naval Bases, Port | 76 (2 Rumania; 3 E. Germany, and 8 Poland) |
| BW/CW Facilities | 70 (6 Poland; 4 E. Germany; 2 Rumania) |
| Radar/Elec. Facilities | 404 (81 Poland; 38 E. Germany; 16 Czechoslovakia) |
| Military | 1,886 (236 E. Germany, 144 Poland; 101 Hungary; 126 Czechoslovakia; 72 Bulgaria; 60 Rumania) |
| Urban/Industrial | 243 |
| U/I | <u>28</u> |
| Total Other | 2,862 |
| TOTAL TARGETS | 5,647 |

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Status of FY 70 Basic Support Exploitation Program as of 31 October 1969

A summary of basic third-phase targets exploited
 and reports/briefs produced thus far in FY 70 is given below:

TARGETS EXPLOITED
 (1 Jul - 31 Oct 69)

| | Initial | Update | Total |
|-------------------|---------|--------|-------|
| <u>Facilities</u> | | | |
| Installations | 72 | 45 | 117 |
| Complexes/Areas | 8 | 5 | 13 |
| Topics | 2 | - | 2 |
| <u>Weapons</u> | | | |
| Objects | 1 | - | 1 |
| Systems | - | - | - |
| | | | 133 |

BASIC REPORTS/BRIEFS
 (1 Jul - 31 Oct 69)

| Reporting Organization | Report | Brief | Total |
|------------------------|--------|-------|-------|
| CIA/IAS | 1 | - | 1 |
| DIAAP-9 | 23 | 11 | 34 |
| USAHC | 1 | - | 1 |
| NPIC | 46 | 27 | 73 |
| | | | 109 |

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